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**Dynamic method of adding data at the nodes of an optical transmission network**

**Abstract**

Dynamic method of adding data at the nodes of a fiber optic transmission network comprising at least one source node, one destination node and a plurality of intermediate nodes, the nodes being connected by a fiber optic connection. The method comprises the steps of creating at the source node an optical resource comprising portions containing data packets addressed to said destination node and free portions that may be occupied by packets supplied by each of said intermediate nodes, when said resource transits an intermediate node, detecting if said resource comprises free portions if said intermediate node has at least one data packet to transmit, and adding said data packet to a free portion of the frame if said free portion may contain said data packet.

Figure 1